

CLAIMS

1. A fluid dispensing brush comprising:

a body defining a first chamber and a second chamber, the body having a plurality of openings defined in at least a portion of its outer surface in fluid communication with the first chamber and a plurality of bristles projecting therefrom;

10 a fluid assembly contained in the second chamber, the fluid assembly having an enclosed pressurized reservoir configured to maintain a quantity of fluid under pressure and further having an actuator disposed and configured to discharge a volume of pressure from the pressurized reservoir when actuated such that a volume of fluid is discharged from the pressurized reservoir; and

15 a nozzle contained in the first chamber, the nozzle having one or more holes defined in at least a portion of its outer surface in fluid communication with the first chamber, the nozzle being configured and connected to the pressurized reservoir such that the nozzle receives at least a portion of the volume of fluid discharged from the pressurized reservoir and the one or more holes discharge the volume of fluid into the first chamber as .
20 one of a fluid spray and a fluid mist, wherein the plurality of openings vents the fluid from the brush.

2. The brush of claim 1, wherein the body includes a barrel portion defining the first chamber and a handle portion defining the second chamber.

5 3. The brush of claim 1, wherein the actuator includes a valve operatively connected
to a first end of the pressurized reservoir and configured to discharge pressure from the
pressurized reservoir when actuated.

10 4. The brush of claim 3, further including a switch disposed in the outer surface, the
switch being further disposed and configured to couple with the valve such that movement
of the switch from a first position to a second position actuates the valve.

15 5. The brush of claim 4, wherein the switch is disposed in the outer surface along the
handle portion.

6. The brush of claim 4, wherein movement of the switch from the first position to the
second position includes depressing the switch.

20 7. The brush of claim 1, wherein the pressurized reservoir further includes a
pressurized gas cartridge configured to contain a compressed gas and operatively
connected to the pressurized reservoir such that an interior of the gas cartridge is in fluid
communication with an interior of the pressurized reservoir.

25 8. The brush of claim 7, wherein the pressurized gas cartridge is disposed and
configured to release a volume of compressed gas into the interior of the pressurized
reservoir.

5 9. The brush of claim 7, wherein the compressed gas is selected from the group
consisting of compressed air, compressed N₂O and compressed CO₂.

10 10. The brush of claim 1, wherein each of the one or more holes of the nozzle is sized
and configured, and wherein the actuator is further configured to discharge the volume of
pressure with sufficient force, such that the nozzle discharges the fluid volume of fluid as
one of fine fluid droplets and ultra-fine fluid droplets.

11 11. The brush of claim 11, wherein each of the one or more holes has a span of from
about 0.4 mm to about 1.0 mm.

15 12. The brush of claim 1, wherein each of the one or more holes of the nozzle is sized
and configured, and wherein the actuator is further configured to discharge the volume of
pressure with sufficient force, such that the nozzle discharges the volume of fluid as one of
an atomized fluid spray and an atomized fluid mist.

20 13. The brush of claim 1, wherein the nozzle further includes a hollow elongated tube
configured to extend from the first chamber into the second chamber, and further
configured to place an interior of the nozzle in fluid communication with the interior of the
pressurized reservoir.

25 14. The brush of claim 2, wherein each of the barrel portion and the handle portion are
configured such that the barrel portion is removably connected to the handle portion.

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15. The brush of claim 2, wherein the barrel portion defines a circular cylinder.
 16. The brush of claim 15, wherein the plurality of bristles is distributed along the outer surface of the cylinder such that the plurality of bristles defines a round brush.
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17. The brush of claim 15, wherein the plurality of openings is distributed along the outer surface of the cylinder such that the fluid vents from a circumferential perimeter of the circular cylinder.
- 15 18. The brush of claim 2, wherein the barrel portion defines a paddle-shaped conformation having a first side and a second side, wherein the plurality of bristles and the plurality of openings are disposed along at least a portion of the first side.
19. The brush of claim 2, wherein the handle portion defines a circular cylinder.

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- 5 20. A fluid dispensing brush comprising:
- a body defining a chamber, the body having a plurality of openings defined in at least a portion of its outer surface in fluid communication with the chamber and a plurality of bristles projecting therefrom;
- a fluid assembly contained in a first portion of the chamber, the fluid assembly
- 10 having an enclosed pressurized reservoir configured to maintain a quantity of fluid under pressure and further having an actuator disposed and configured to discharge a volume of pressure from the pressurized reservoir when actuated such that a volume of fluid is discharged from the pressurized reservoir; and
- a nozzle contained in a second portion of the chamber, the nozzle having one or
- 15 more holes defined in at least a portion of its outer surface in fluid communication with the chamber, the nozzle being configured and connected to the pressurized reservoir such that the nozzle receives at least a portion of the volume of fluid discharged from the pressurized reservoir and the one or more holes discharges the volume of fluid into the chamber as one of a fluid spray and a fluid mist, wherein the plurality of openings vents the fluid from the
- 20 brush.

- 5 21. A fluid dispensing brush comprising:
- a body defining a chamber;
- at least a portion of an outer surface of the body defining a plurality of openings in
- fluid communication with the chamber and having a plurality of bristles projecting
- therefrom;
- 10 means contained by the body within the chamber to contain and to maintain a
- quantity of fluid under pressure;
- means contained by the body within the chamber to discharge a volume of
- pressurized fluid; and
- means contained by the body within the chamber to receive the volume of fluid
- 15 discharged and to vent the volume of fluid through the plurality of openings.
22. The brush of claim 21, wherein means to contain and to maintain the quantity of
- fluid under pressure includes an enclosed reservoir configured to contain the quantity of
- fluid and a compressed gas cartridge operatively connected to the enclosed reservoir such
- 20 that an interior of the compressed gas cartridge is in fluid communication with an interior
- of the enclosed reservoir.
23. The brush of claim 22, wherein the compressed gas cartridge is configured to
- contain a quantity of compressed gas and further configured to release a volume of the
- 25 compressed gas into the interior of the enclosed reservoir to maintain the quantity of fluid
- contained therein under pressure.

5 24. The brush of claim 21, wherein means to discharge the volume of pressurized fluid includes a valve disposed and configured such that when the valve is actuated the volume of pressurized fluid is released.

10 25. The brush of claim 24, wherein the valve is further disposed and further configured to mate with a switch disposed along the outer surface such that movement of the switch from a first position to a second position actuates the valve.

15 26. The brush of claim 21, wherein means to receive the volume of fluid discharged and to vent the volume of fluid through the plurality of openings includes a nozzle disposed in the chamber having one or more holes defined in its outer surface in fluid communication with the plurality of openings.

20 27. The brush of claim 26, wherein each of one or more holes is disposed and configured to discharge the volume of fluid as one of a fluid spray and a fluid mist.